

## Proposal Full View

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### Applicant Information

Organization Name

City of Banning Department of Public Works ▾ \*

Tax ID

**956000674**

Proposal Name

Proposal for Development of a  
Ground Water Management Plan  
and Ground Water Recharge  
Feasibility Study for the Banning  
Ground Water Storage Units \*

Proposal Objective

It is proposed to prepare a ground water management plan (GWMP) and a ground water recharge feasibility study (GWRFS) for the Banning Storage Units of the San Gorgonio Pass Ground Water Subbasins. The proposed Plan will focus on the Banning, Banning Bench, and Banning Canyon Storage Units (Banning Storage Units) of the San Gorgonio Pass Ground Water Subbasin. The City is continuing to work cooperatively with Banning Heights Water Company along with local private users and the Riverside County Flood Control and Water Conservation District, RCFCWCD, with respect to ground water recharge to insure and improve the long-term reliability and sustainability of ground water from the storage units. Project 1 : GWMP will build upon an existing cooperation within the storage units and further explore ground water management opportunities in the storage units, identify projects and programs that can be implemented to improve long-term water supply, and establish an approach to ground water management that is accepted and recognized by other local, State, and federal agencies in order to pursue grant funding to implement projects that support improved ground water management. Project 2: GWRFS will compliment the GWMP by developing a tool for assessing current and future management strategies. The GWRFS will consist of a comprehensive assimilation of geologic and geohydrologic data for the Banning Storage Units to prepare a watershed model and refine the existing USGS ground water flow and solute transport model of the Banning Storage Units. The GWRFS will also include recommendations for site specific field investigations, technical specifications for exploratory drilling and test well construction and testing, and pilot basin construction and testing protocol to move the selected project forward. \*

### Budget

Other Contribution

\$0.00

Local Contribution

\$0.00

Federal Contribution

\$0.00

Inkind Contribution	\$64,415.00	
Amount Requested	\$247,880.00	*
Total Project Cost	\$312,295.00	*

## Geographic Information

Latitude *	DD(+/-)	33	MM	57	SS	32	See Figure 1 in Attachment 4 for project location.
Longitude *	DD(+/-)	-116	MM	53	SS	50	
Longitude/Latitude Clarification	Location						
County	Riverside *						
Ground Water Basin	Coachella Valley-San Gorgonio Pass						
Hydrologic Region	Colorado River						
Watershed	Watershed 181 10719 Whitewater						

## Legislative Information

Assembly District	65th Assembly District *
Senate District	37th Senate District *
US Congressional District	District 41 (CA) *

## Project Information

Project Name Proposal for Development of a Groun

Implementing Organization	City of Banning Department of Public Works
Secondary Implementing Organization	
Proposed Start Date	6/1/2013
Proposed End Date	8/15/2014
Project Scope	Project 2: GWRFS will compliment the GWMP by developing a tool for assessing current and future management strategies.
	The ground water recharge feasibility study (GWRFS) will consist of a comprehensive update and assimilation of geologic and geohydrologic data for the Banning Storage Units to prepare a watershed model and to refine the existing USGS

Project Description	<p>ground water flow and solute transport model of the Banning Storage Units. The models will become a valuable tool to evaluate ground water recharge using captured stormwater, recycled water or imported water for potential recharge sites, as well as long-term salt and nutrient management in the Banning Storage Units. The GWRFS report will also include recommendations for site specific field investigations including, technical specifications for exploratory drilling and test well construction and testing, and pilot basin construction and testing protocol.</p>
Project Objective	<p>The project objective is to assemble a comprehensive geologic and geohydrologic database and build a hydrologic tool which can be used for an accurate simulation of proposed current and future ground water management scenarios.</p>

**Project Benefits Information**

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Water Storage -- Groundwater-Recharge area developed	0	

Project Objective

**Budget**

Other Contribution	<input type="text" value="0"/>
Local Contribution	<input type="text" value="0"/>
Federal Contribution	<input type="text" value="0"/>
Inkind Contribution	<input type="text" value="53789"/>
Amount Requested	<input type="text" value="189955"/>
Total Project Cost	<input type="text" value="243744"/>

**Geographic Information**

Latitude DD(+/-)	<input type="text" value="33"/>	MM	<input type="text" value="57"/>	SS	<input type="text" value="32"/>
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Longitude DD(+/-)

-116

MM 53

SS 50

Longitude/Latitude

Location

See Figure 1 in Attachme

Clarification

County Riverside Ground Water Basin Coachella Valley-San Gorgonio Pass Hydrologic Region

Colorado River WaterShed Watershed 181 10719 Whitewater

## Legislative Information

Assembly District	65th Assembly District
Senate District	37th Senate District
US Congressional District	District 41 (CA)

## Project Information

Project Name

Proposal for Development of a G

Implementing Organization	City of Banning Department of Public Works
Secondary Implementing Organization	
Proposed Start Date	6/1/2013
Proposed End Date	12/31/2014
Project Scope	Project 1: It is proposed to prepare a ground water management plan (GWMP) for the Banning Storage Units.
Project Description	<p>A GWMP for the Banning Storage Units is proposed in an effort to manage ground water in a sustainable manner. Since ground water is by far the most important water supply for the City and its sphere of influence, management of the ground water supplies through a state compliant GWMP is a necessary part of the next step of ground water management for those storage units. The Storage Units to be included in the ground water management plan consist of Banning Canyon, Banning Bench, and Banning Storage Units. The San Gorgonio Pass Ground Water Subbasin also includes a portion of Beaumont Storage Unit, located to the west of Banning, and the Cabazon Storage Unit located to the east. All of the storage units are located in Riverside County, California. Management of the ground water supplies in the Banning Storage Units is essential. In 2010 approximately 67 percent of the water supplied to the City's population comes from these storage units. The municipal and industrial (M&amp;I), and irrigation demands rely exclusively on ground</p>

	<p>water and constitute an estimated 16 percent of total pumpage from the storage units. Should demand patterns remain consistent, basin pumpage is expected to approach sustainable yield in the next five years. The City is investigating ground water recharge projects using stormwater run-off, recycled water, and imported water. The City works cooperatively with Banning Heights Mutual Water Company, the only other water purveyor using the Banning Bench Storage Unit, to manage the ground water supplies. The City is in discussions with Riverside County Flood Control and Water Conservation District (RCFCWCD) to cooperatively plan and implement a recharge project, which meets the mission of both agencies, for surface water conservation and development of ground water supplies.</p>
Project Objective	<p>The project objective is to build upon an existing cooperation within the storage units and further explore ground water management opportunities in the storage units, identify projects and programs that can be implemented to improve long-term water supply, and establish an approach to ground water management that is accepted and recognized by other local, state, and federal agencies in order to pursue grant funding to implement projects that support improved ground water management.</p>

### Project Benefits Information

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Water Storage -- Groundwater-Water Supply Enhancement	0	

Project Objective

### Budget

Other Contribution

Local Contribution

Federal Contribution	0
Inkind Contribution	10626
Amount Requested	57925
Total Project Cost	68551

## Geographic Information

Latitude DD(+/-)	33	MM 57	SS 32
Longitude DD(+/-)	-116	MM 53	SS 50
Longitude/Latitude Clarification		Location	See Figure 1 in Attachme
County	Riverside Ground Water Basin Coachella Valley-San Gorgonio Pass Hydrologic Region		
Colorado River WaterShed	Watershed 181 10719 Whitewater		

## Legislative Information

Assembly District	65th Assembly District
Senate District	37th Senate District
US Congressional District	District 41 (CA)

## Section : Applicant Information and Question's Tab

### APPLICANT INFORMATION AND QUESTION'S TAB

#### Q1. Applicant Information

**Provide the agency name, address, city, state, and zip code of the applicant submitting the application.**

City of Banning 99 E. Ramsey Street Banning, Ca 92220

#### Q2. Proposal Description:

**Provide a brief abstract of the Proposal. This abstract must provide an overview of the proposal including the main issues and priorities addressed in the proposal. Within the abstract, please describe how the proposal relates to the GWMP's BMO's.**

The City of Banning is leading the effort to sustainably manage the ground water resources of the Banning Canyon, Banning Bench, and Banning Ground Water Storage Units, collectively referred to as the Banning Storage Units within this proposal. Ground water provides the major portion of water supply for approximately 30,000 people in the City of Banning and the City's Sphere of Influence (SOI) service area, with an estimated 49,000 people to be served by 2035. The proposal consists of two components: Project 1: Development of a ground water management plan (GWMP) for the Banning Storage Units and, Project 2: The preparation of a ground water recharge feasibility study (GWRFS) for stormwater capture and recharge, indirect potable reuse, and imported water recharge. The GWMP and Recharge Feasibility Study will be completed cooperatively with local Stakeholders

such as the Riverside County Flood, Water Conservation District and Banning Heights Mutual Water Company. It is proposed to prepare a ground water management plan for the Banning Storage Units of the San Gorgonio Pass Ground Water Subbasins. Since ground water is by far the most important of water supply for the City and its SOI, management of the ground water supplies through a state compliant GWMP is a necessary part of the next step of ground water management for those storage units. The purpose is to complete and adopt a plan with storage unit specific Basin Management Objectives (BMOs) in order to identify ground water management activities that are linked to each BMO. The GWMP will build upon an existing cooperation within the storage units and further explore ground water management opportunities in the storage units, identify projects and programs that can be implemented to improve long-term water supply, and establish an approach to ground water management that is accepted and recognized by other local, state, and federal agencies in order to pursue grant funding to implement projects that support improved ground water management. The GWRFS area for this project includes the Banning, Banning Bench, and Banning Canyon Storage Units as shown on Figure 1 of Attachment 4. The Storage Units are part of the San Gorgonio Pass Ground Water Subbasin. Therefore, the GWRFS will consist of a comprehensive update and assimilation of geologic and geohydrologic data for the Banning Storage Units to prepare a watershed model and to refine the existing USGS ground water flow and solute transport model of the Banning Storage Units. The models will become a valuable tool to evaluate ground water recharge using captured stormwater, recycled water or imported water for potential recharge sites, as well as long-term salt and nutrient management in the Banning Storage Units. The City of Banning is interested in identifying areas of potential conjunctive use spreading and extraction of surface and ground water within the Banning Storage Units. The GWRFS will identify means to meet anticipated water demands for planned growth while maintaining the health of the ground water storage units by evaluating potential volumes of storm water capture, recycled water, and imported water available for ground water recharge. GWRFS will prepare a comprehensive hydrologic tool using up to date industry standard models to use for on-going ground water management. The project schedule for the development of the GWMP is anticipated to be 18-months in duration. The GWRFS is expected to require approximately 14-months to complete. The GWRFS will be completed shortly before the GWMP. The hydrologic tools developed for the GWRFS will be used in preparation of the GWMP. In order to meet grant schedule requirements, Project 1 is assumed to begin in June 2013 and be completed in December 2014 in accordance with the schedule. Project 2 is assumed to begin in June 2013 and be completed in August 2014.

### **Q3. Project Director:**

**Provide the name and details (including email) of the person responsible for executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Director.**

Duane Burk Director of Public Works (951) 922-3140 dburk@ci.banning.ca.us

### **Q4. Project Manager:**

**Provide the name and contact information (including email) of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.**

Art Vela, P.E. Senior Engineer (951) 922-3130 avela@ci.banning.ca.us

### **Q5. Additional Information:**

Central, South Central, or Southern)? The following link can be used to view each DWR region office boundaries:

[http://www.water.ca.gov/groundwater/groundwater\\_basics/gw\\_contacts\\_info.cfm](http://www.water.ca.gov/groundwater/groundwater_basics/gw_contacts_info.cfm)

- 1) ☐ Northern Region
- 2) ☐ North Central Region
- 3) ☐ South Central Region
- 4) ☒ Southern Region

#### **Q6. Additional Information:**

**Provide the Date of GWMP Adoption, if any, and list the pursuant Water Code Section or other legal Authority in which it was adopted.**

This proposal requests a grant to prepare a ground water management plan for the Banning Storage Units of the San Gorgonio Pass Ground Water Subbasin. The Plan will focus on the Banning, Banning Bench, and Banning Canyon Storage Units (Banning Storage Units) of the San Gorgonio Pass Ground Water Subbasin in order to insure and improve the long-term reliability of ground water from the storage units. Based on the schedule in Attachment 7, the GWMP is proposed to be completed in December 2014.

#### **Q7. Additional Information:**

**Provide a list of documents that support and indicate collaboration with other local public agencies with regard to the management of the affected groundwater basin (e.g., MOUs, MOAs, JPAs, adoption of a GWMP, recognition of county ordinances in permitting processes, or party to a groundwater basin adjudication order).**

1. Resolution No. 2012-10 UA, Authorizing the Implementation of the Regional Maximum Benefit Objectives in the Beaumont Management Zone. July 2012.
2. Resolution No. 2012-01 UA, Authorizing Submittal of an Application for Long-Term Easement from the City as Applicant to the San Bernardino National Forest for the Repair, Operation, and Maintenance of the Existing Water Division and Conveyance, Facilities, also known as the Whitewater Flume. January 2012.

#### **Q8. Additional Information**

**Name the entity(ies) providing the fund(s) reported in the above Budget section under the category "Other Contribution". If there are no "Other Contributions" Please answer this question with, "No Other Contributions".**

No Other Contributions.

#### **Q9. Eligibility:**

**List the urban water suppliers that will receive funding from the proposed grant. Please provide the agency name, a contact phone number and email address. Those listed must submit self certification of compliance with CWC §525 et seq. and AB1420, see Attachment 10. If there are none, so indicate.**

City of Banning 99 E. Ramsey Street Banning, Ca 92220 See Attachment 10.



**Q10. Eligibility:**

**Have all of the urban water suppliers, listed in Q9 above, submitted complete 2010 UWMP to DWR? If not, explain why. Have those plans been verified as complete by DWR? If not, explain current status.**

A 2010 UWMP has been submitted.

**Q11. Completeness Check:**

**Have all of the fields in the application been completed?**

Yes

**Q.11. Completeness Check (cont)**

**If no, please explain. If yes, answer this question with "NA".**

NA

**Section : Application Attachments Tab****APPLICATION ATTACHMENTS TAB****Attachment 1. Authorizing Documentation**

**Upload authorizing documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments: Att1\_LGA12\_CityofBanning\_AuthDoc.pdf

**Attachment 2. Eligible Applicant Documentation**

**Upload eligible documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments: Att2\_LGA12\_CityofBanning\_EligDoc.pdf

**Attachment 3. Status of GWMP**

**Upload the GWMP documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments: Att3\_LGA12\_CityofBanning\_GWMP.pdf

**Attachment 4. Project Description**

**Upload project description here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments: Att4\_LGA12\_CityofBanning\_ProjD.pdf

### **Attachment 5. Work Plan**

**Upload work plan here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments: Att5\_LGA12\_CityofBanning\_WrkPln.pdf

### **Attachment 6. Budget**

**Upload budget here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments: Att6\_LGA12\_CityofBanning\_BUDGET.pdf

### **Attachment 7. Schedule**

**Upload schedule here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments: Att7\_LGA12\_CityofBanning\_SCHED.pdf

### **Attachment 8. Quality Assurance**

**Upload quality assurance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments: Att8\_LGA12\_CityofBanning\_QA.pdf

### **Attachment 9. Past Performance**

**Upload past performance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments: Att9\_LGA12\_CityofBanning\_PERFORM.pdf

### **Attachment 10. AB1420 and Water Meter Implementation Compliance**

**Upload 1420 and water meter implementation documentation here, if applicable. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments: Att10\_LGA12\_CityofBanning\_1420.pdf

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